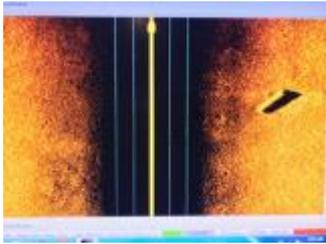


## Successful Demonstrations at Autonomous Warrior 2018

BlueZone Group project management, technical and engineering staff have completed successful demonstrations at Autonomous Warrior 2018 (AW18) in Jervis Bay NSW 5 to 23 November.



AW18 was an important demonstration of Next Generation REMUS 100 capability that the RAN will soon operate as components of Deployable Geospatial Survey Teams. Two NG REMUS 100 will be delivered to the RAN in 2019 as part of the SEA1770 Program.

The Integrated Z-Boat was used to demonstrate remote visual surveillance capabilities using high resolution video, thermal and still cameras. Above and below water rapid environmental assessment and survey tasks were completed including rapid evaluation and de-risking of the nearshore mine threat via integrated USV multibeam sonar system



Supporting demonstration of a remote-control UUV capability, BZG staff worked to establish a complete real-time communications circuit that spanned the globe. The demonstration showed how real-time data from a UUV could be transmitted using satellite links to a land-based control room.

[Read More](#)

## EOM Offshore Joins BlueZone for Distribution

BlueZone Group is pleased to welcome EOM Offshore for exclusive distribution in Australia and New Zealand.

Electro-Optical-Mechanical (EOM) Offshore provides specialised mooring components that may be configured to support multiple industries and research. The EOM Offshore patented Stretch Hose technology is the result of decades of research and development at the Woods Hole Oceanographic Institution. The Stretch Hose elongates 2.5 times its original length, using mechanical compliance rather than geometric compliance that is used with the traditional catenary mooring. The Stretch Hose provides constant communications and power transmission between underwater instruments and a buoyant object in any weather conditions. In calm conditions, the Stretch Hose returns to its original length, thereby minimising the watch circle.



[Read More](#)

## New Generation REMUS 100 for Netherlands

The Royal Netherlands Navy's Mine Service has added three New Generation REMUS 100 marine robots to enable mapping of the underwater soil and viewing objects such as mines, explosives but also missing persons.



The AUV can perform pre-programmed missions autonomously as they are equipped with Seebyte Neptune software. The software can make and execute its own decisions during a mission.

The Netherlands Navy significant experience in operating REMUS and the latest addition is part of the mine control equipment renewal program.

[Read More](#)

## GPS Denial - DVLs Offer a Robust Navigation Solution

GPS denial is a real risk to defence operations globally. In November 2018 it was reported that Russian efforts to disrupt NATO wargames with electronic warfare were suspected of putting airline passengers at risk by jamming satellite navigation systems across Norway and Finland.



This risk to maritime operations is similar, particularly for those operations which rely on precise position like mine countermeasures. Those clearance systems that depend exclusively on GPS signal for location (e.g. small boats operating One Shot Mine Disposal Systems) will be rendered ineffective in times of GPS denial.

Teledyne RDI has a solution for ships or systems that need to navigate where the GPS signal might be blocked or jammed. For safe maritime operations, the Teledyne RDI Doppler Velocity Log can provide an enhancement or replacement when GPS is unavailable – or when redundancy is needed.

[Read More](#)

## Perth Live Pressure Testing Assuring High Quality Cable Assembly Delivery

The existing hydrostatic pressure test capability at the BlueZone Perth facility has been improved with the addition of the capability for live testing of cable assemblies and Electric Fly Leads (EFLs). Customer-specified test cycles including live testing for continuity, isolation and insulation at pressure up to 3000psi (2000 metres of seawater).



The capability for live pressure testing includes electrical connection for 4-pin and 7-pin Electric Fly Leads (EFLs) and up to 8-pin cable assemblies. The live pressure testing capability supports the BlueZone commitment to delivery of high-quality cable assemblies and connector moulding that customers can depend on for subsea operations.

[Read More](#)

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## Events

Please join BlueZone Group at these upcoming events!

We are keen to talk to you about how innovative new technologies offered by BlueZone can solve issues for your challenges in Australia's oceans, coastal seas and rivers.

We are happy to answer your questions and arrange on-site demonstrations and further discussion if required.

## Christmas & New Year Shutdown

From all the team at BlueZone Group, we would like to wish all of our customers and suppliers a very Merry Christmas and a Happy New Year.

Our crew has enjoyed supporting your work in Australia's deep oceans, coastal seas, rivers and water infrastructure in 2018. We look forward to working with you in 2019 to stay Ahead of the Tide in all areas of science, business and industry.

Christmas & New Year Shutdown - Newcastle, Melbourne & Perth

Last working day: Friday 21 December

All offices re-open: Wednesday 2 January

## Ocean Business - 9 to 11 April - Southampton UK

BlueZone Group will be at Ocean Business in Southampton again in 2019 and we are looking forward to meeting with existing and new suppliers, colleagues and friends. Please contact us to set up a meeting if you would like to discuss and issues about sales and support of leading underwater technologies in Australia and New Zealand.

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## New Products & Services

### Teledyne CARIS to Adopt New Licensing Technology

Teledyne CARIS™ has announced a move to new software licensing technology. Clients will first see this implemented in conjunction with the upcoming release of Bathy DataBASE™ 5.2, with integration into other CARIS applications scheduled for the coming months. With this new licensing technology, Teledyne CARIS is responding to changing market requirements and customers wishes as well as preparing for new options for future software deployment.

Key benefits of this new technology include:

- Convenient and easy softkey activation
- The elimination of physical hardware removes the possibility of damage or loss
- No more need of a separate licensing tool
- Faster software purchase and setup
- Improved license usage transparency for network license users

CARIS Onboard is ideally suited to multibeam Unmanned Surface Vehicle platforms providing real-time processing of data.

For more information about the new licensing technology and effects on your organisation, please contact Mark Hegarty, GM Oceanographic at BlueZone Group.

## **Workhorse Rio Grande ADCP Set to Retire in 2019** **Even a "Workhorse" eventually needs to step aside**

As of December 31, 2018, Teledyne RDI will no longer offer the long-standing Workhorse Rio Grande ADCP for purchase.

Service and repair all existing Rio Grande ADCP will continue until January 2024, so there will be an extended period to transition to a newer ADCP product.

Teledyne RDI apologises for any inconvenience this may cause, unfortunately, component obsolescence drives this issue as technology continues to advance.

As an upgrade guide:

- RiverRay ADCP replaces the Rio Grande 600.
- RiverPro ADCP replaces the Rio Grande 1200



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